

**MACHINE FOR PERFORMING MACHINING OPERATIONS ON A WORK-
PIECE AND METHOD OF CONTROLLING SAME**

ABSTRACT

A machine for performing machining operations on a work-piece is disclosed that includes a carriage with a robotic arm mounted thereon. The arm includes a movable head containing a tool for performing the machining operations on the work-piece. A laser position determination system is included for determining the actual spatial relationship position the carriage and the work-piece and providing a first signal representative thereof and further determining the spatial relationship of the head to the work-piece during actual machining operations on the work-piece and providing a second signal representative thereof. A computer having a computer program provides a third signal to the robotic arm for machining the work-piece based on a predetermined spatial relationship between the carriage and the work-piece and for receiving the first and second signals and adjusting the third signal based on the actual spatial relationship between the carriage and the work-piece and the head and the work-piece.